

FIG 2.

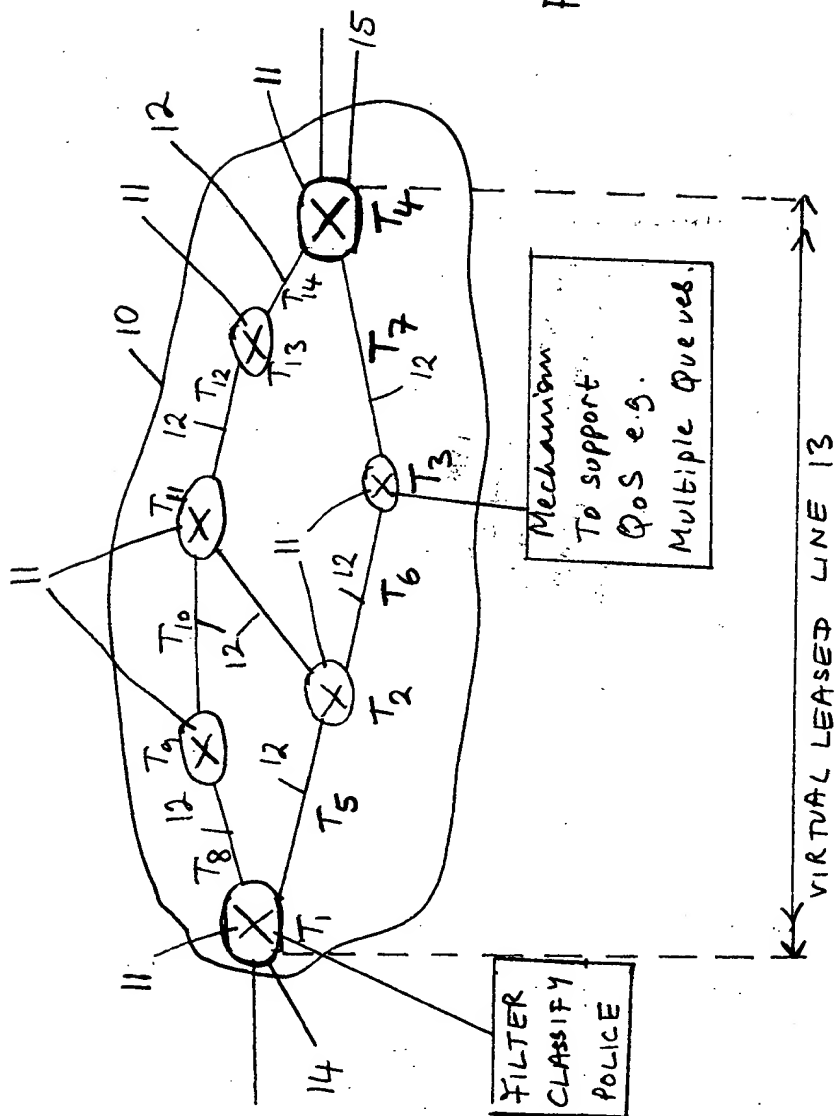


FIG 1

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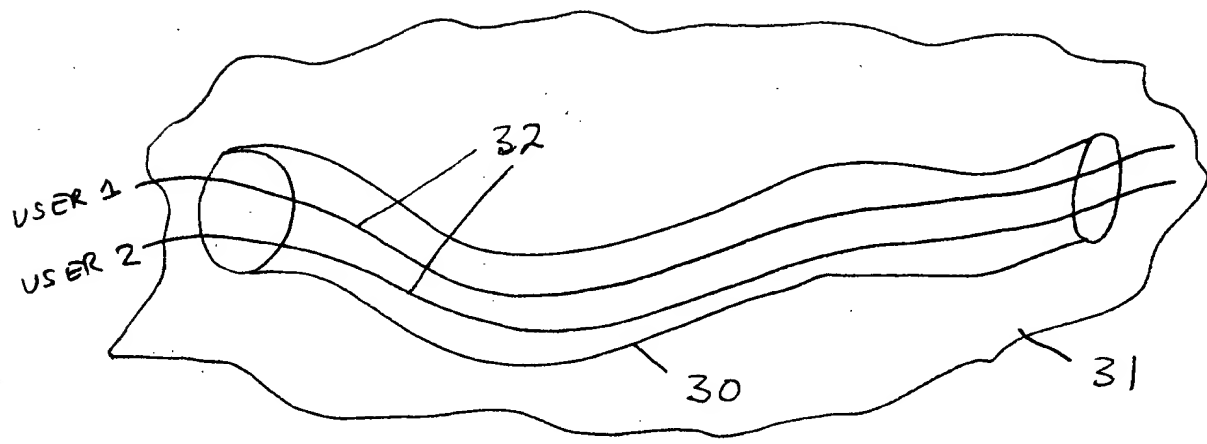


FIG 3

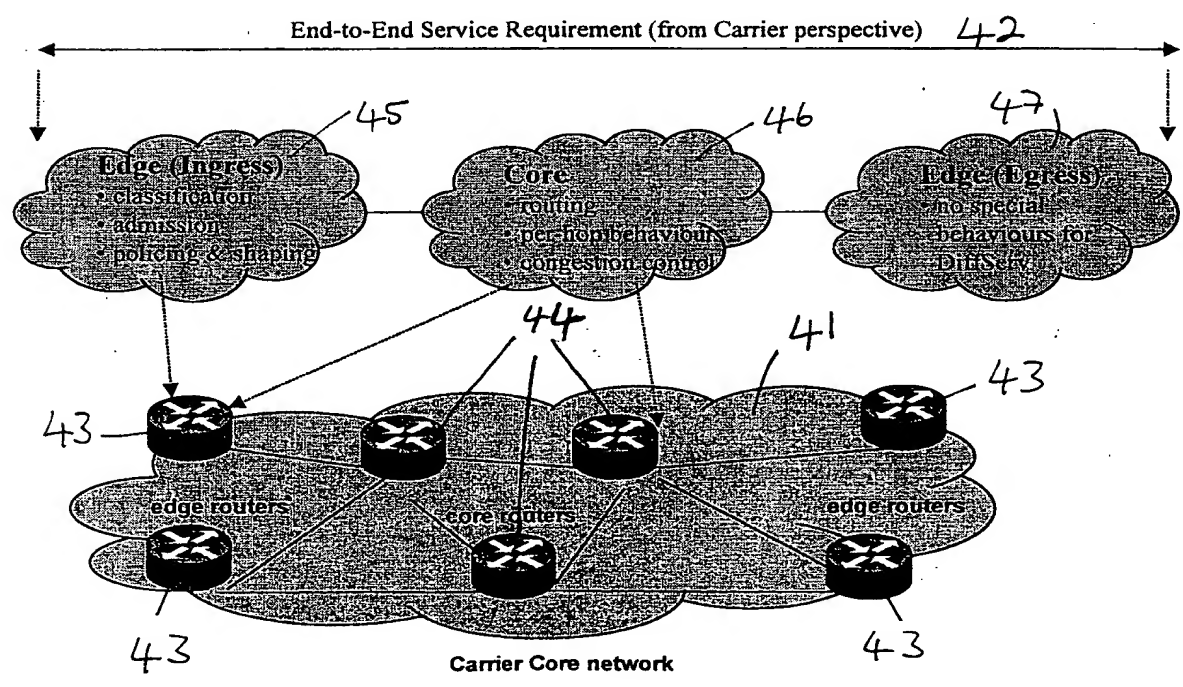
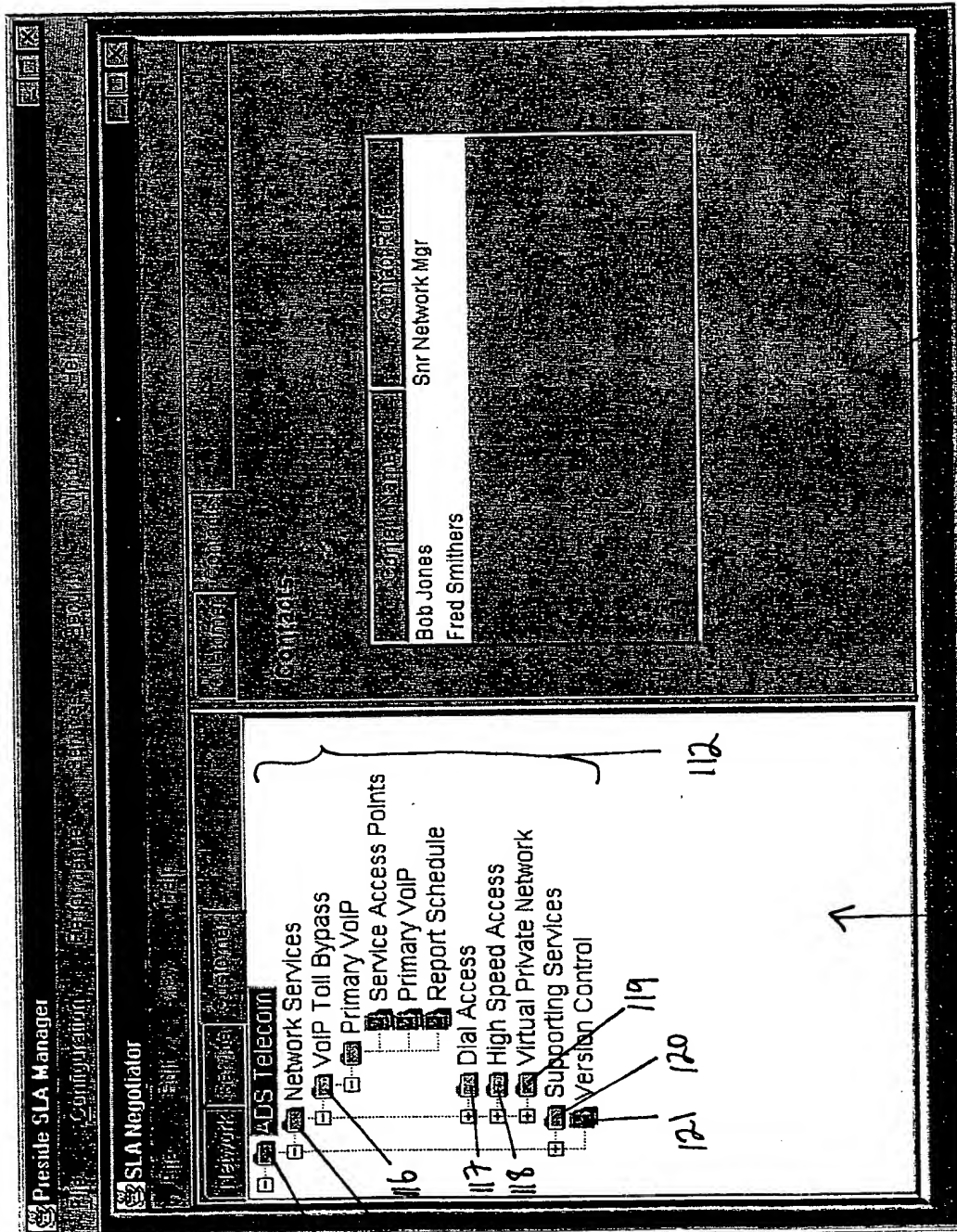


FIG 4

09541485 040300



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110

FIG. 7

111

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Fig 8

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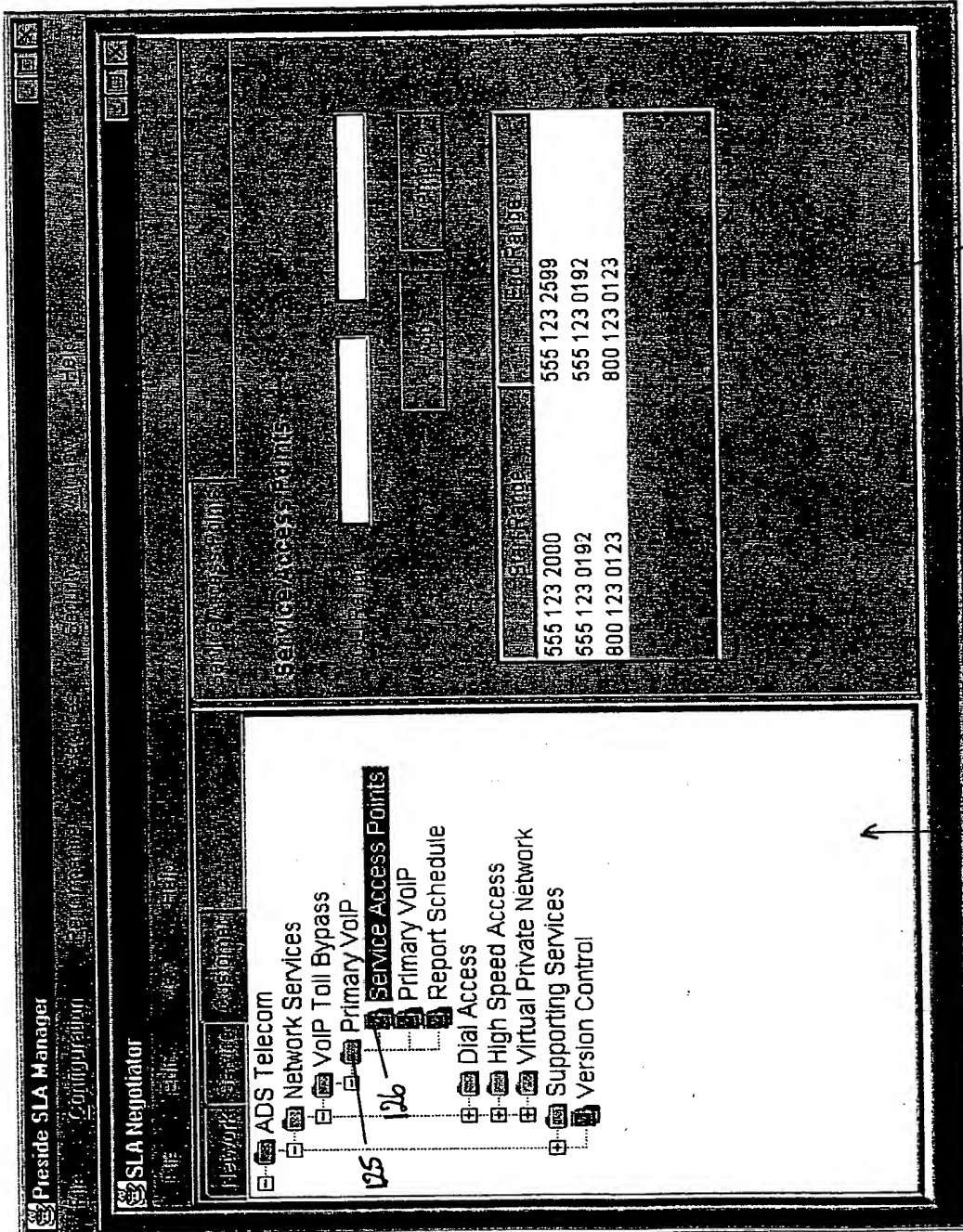


Fig 9

110

111

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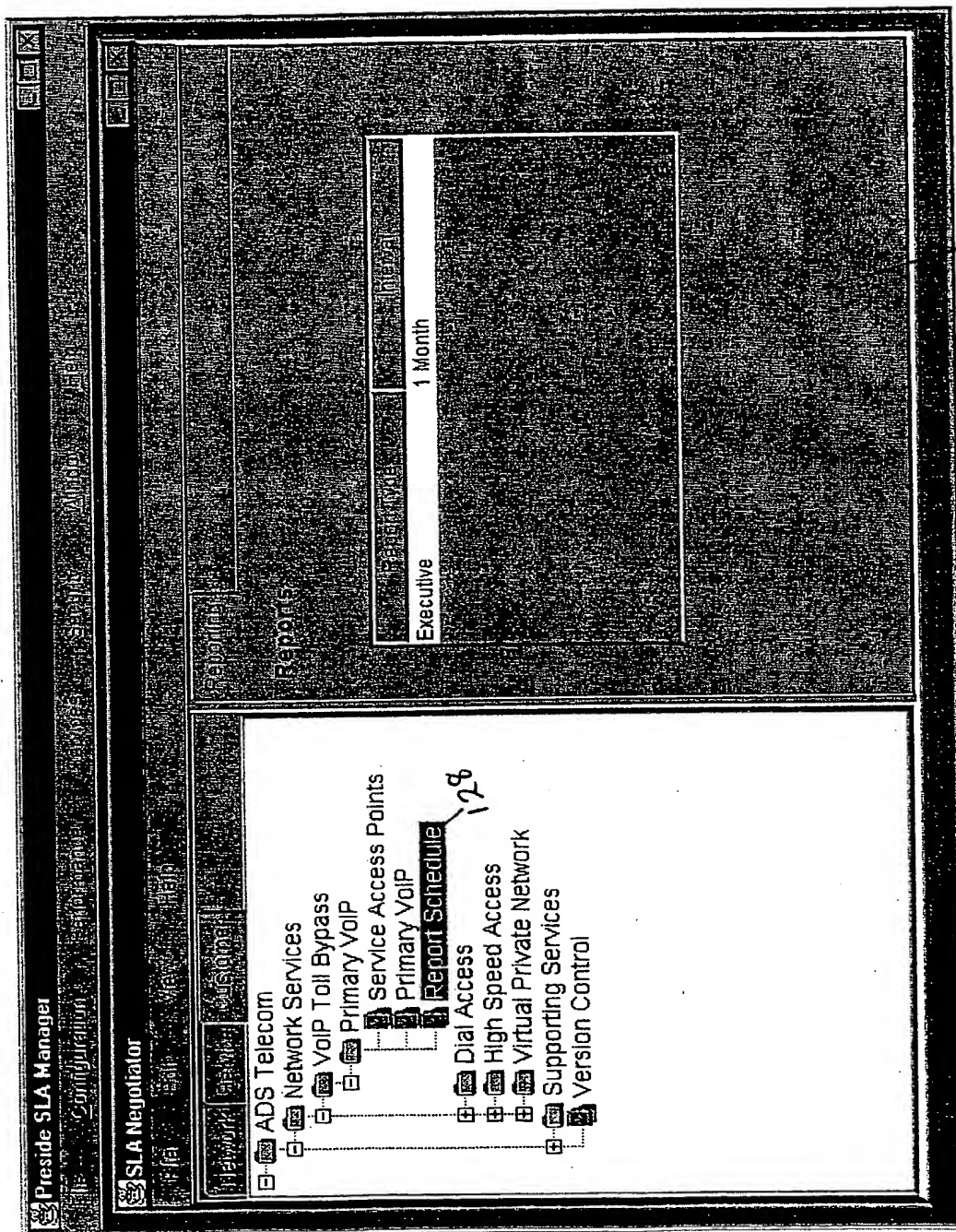
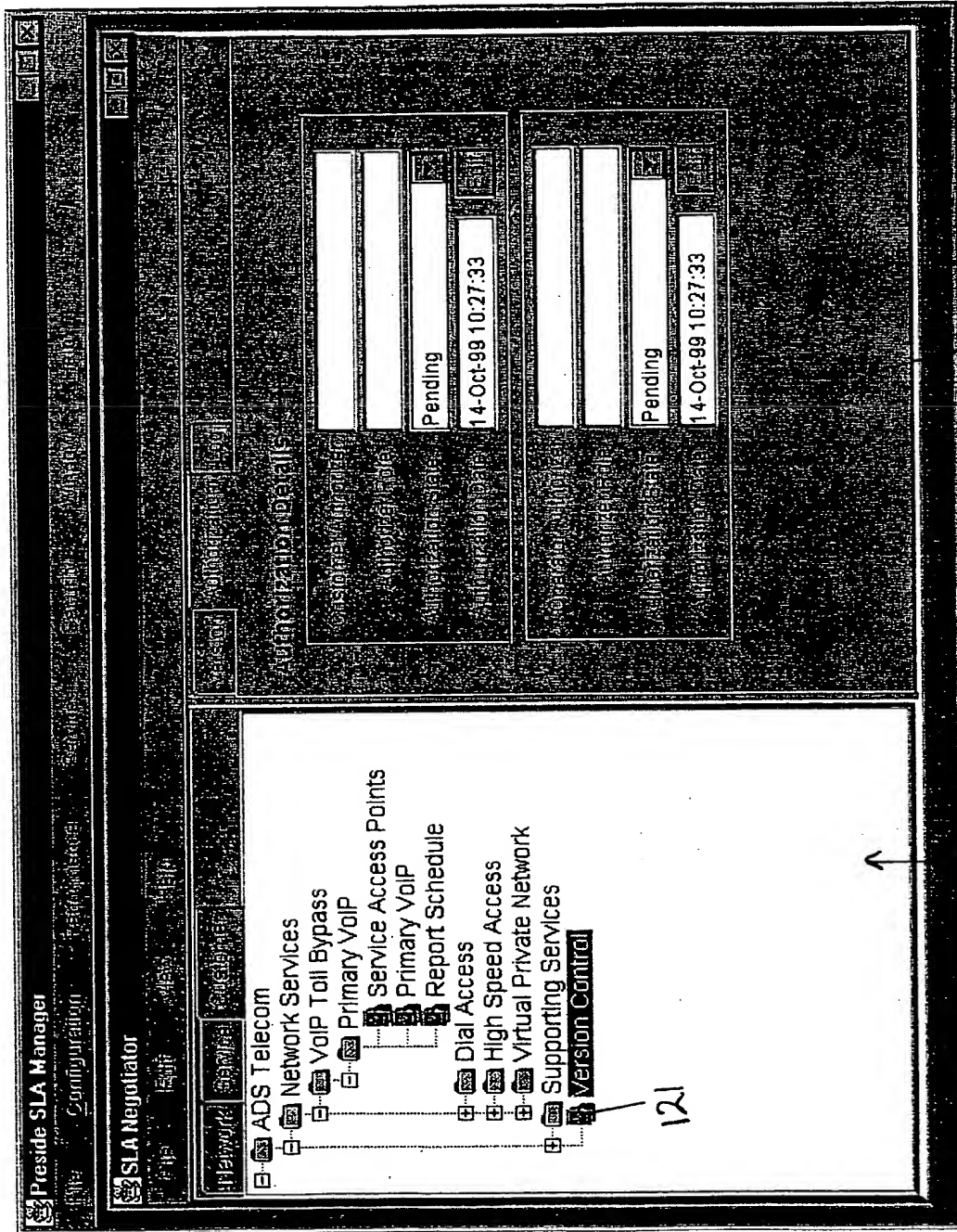


FIG 10 110



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110

FIG 11

111

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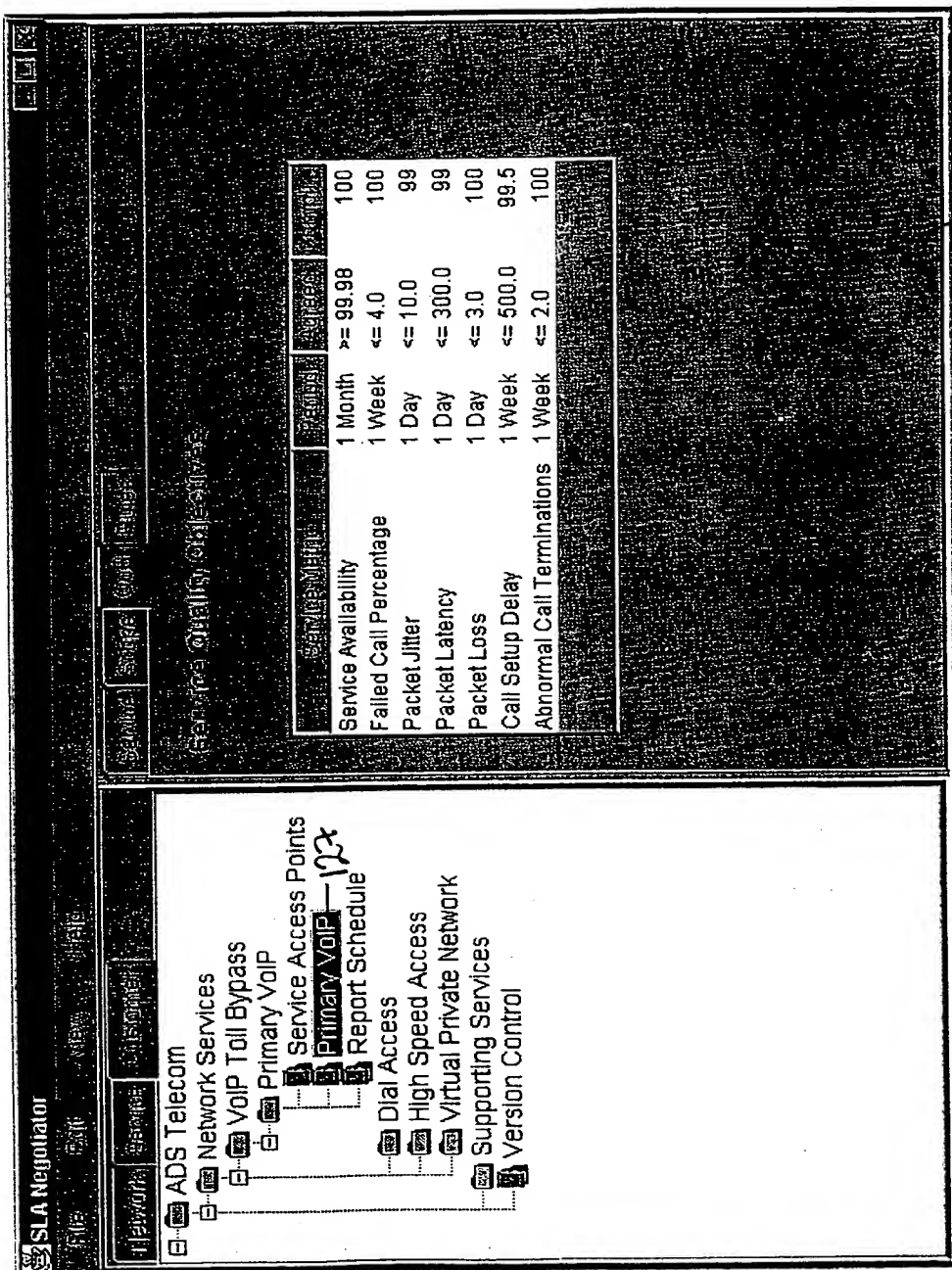


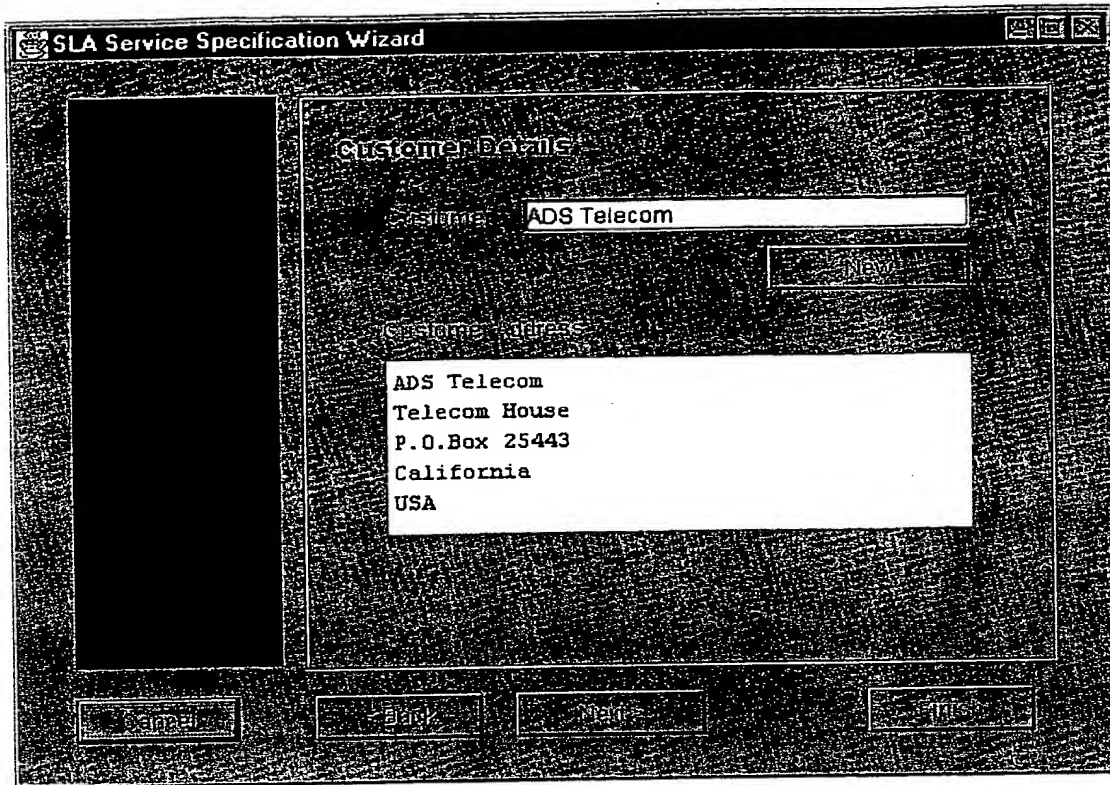
FIG 12 110

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Fig 13 110

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SLA Service Specification Wizard

Customer Define

Customer: ADS Telecom

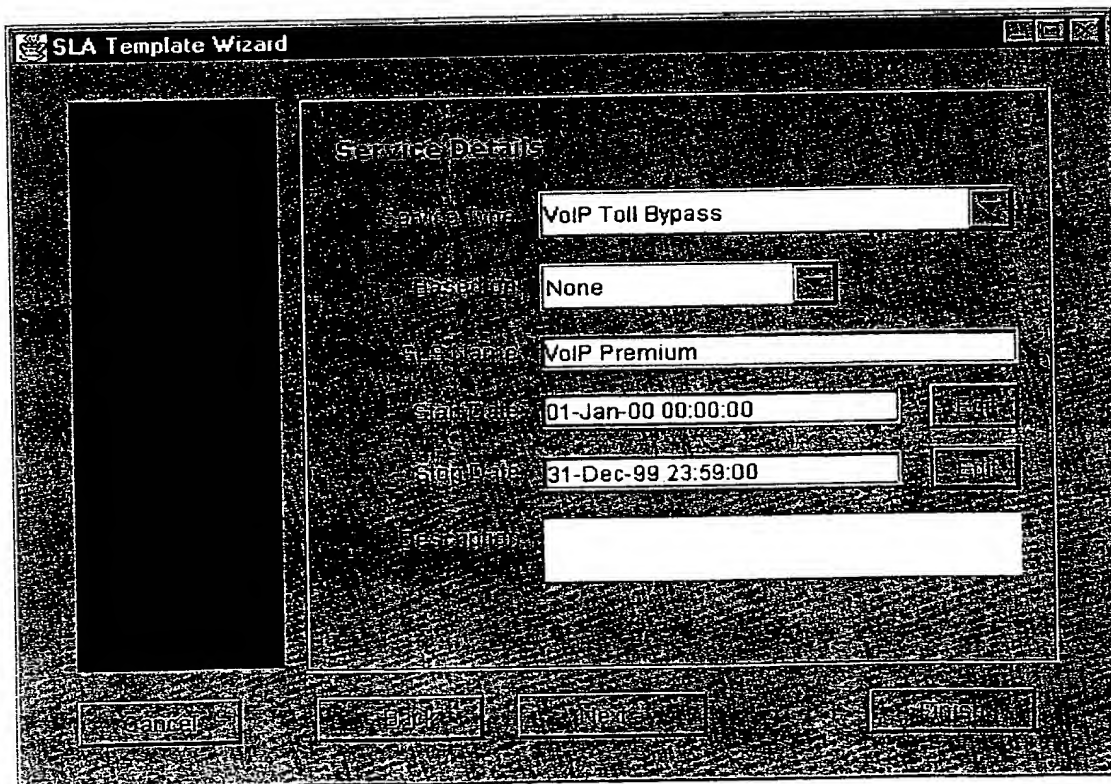
New

Customer Address

ADS Telecom  
Telecom House  
P.O.Box 25443  
California  
USA

Cancel Back Next Finish

FIG 14



SLA Template Wizard

Service Define

Service Type: VoIP Toll Bypass

Priority: None

SLA Name: VoIP Premium

Start Date: 01-Jan-00 00:00:00

Stop Date: 31-Dec-99 23:59:00

Destination:

Cancel Back Next Finish

FIG 15

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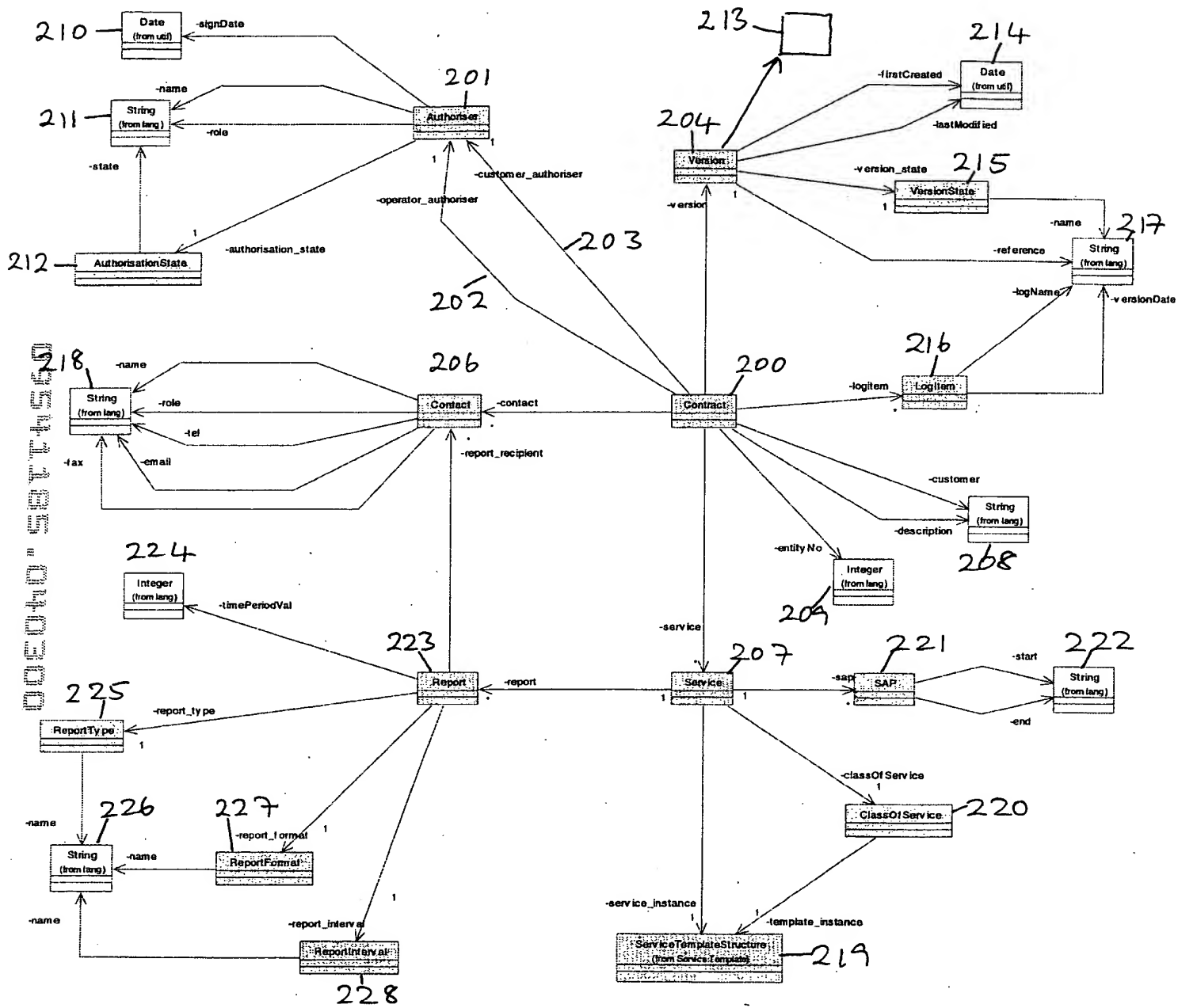


FIG 16

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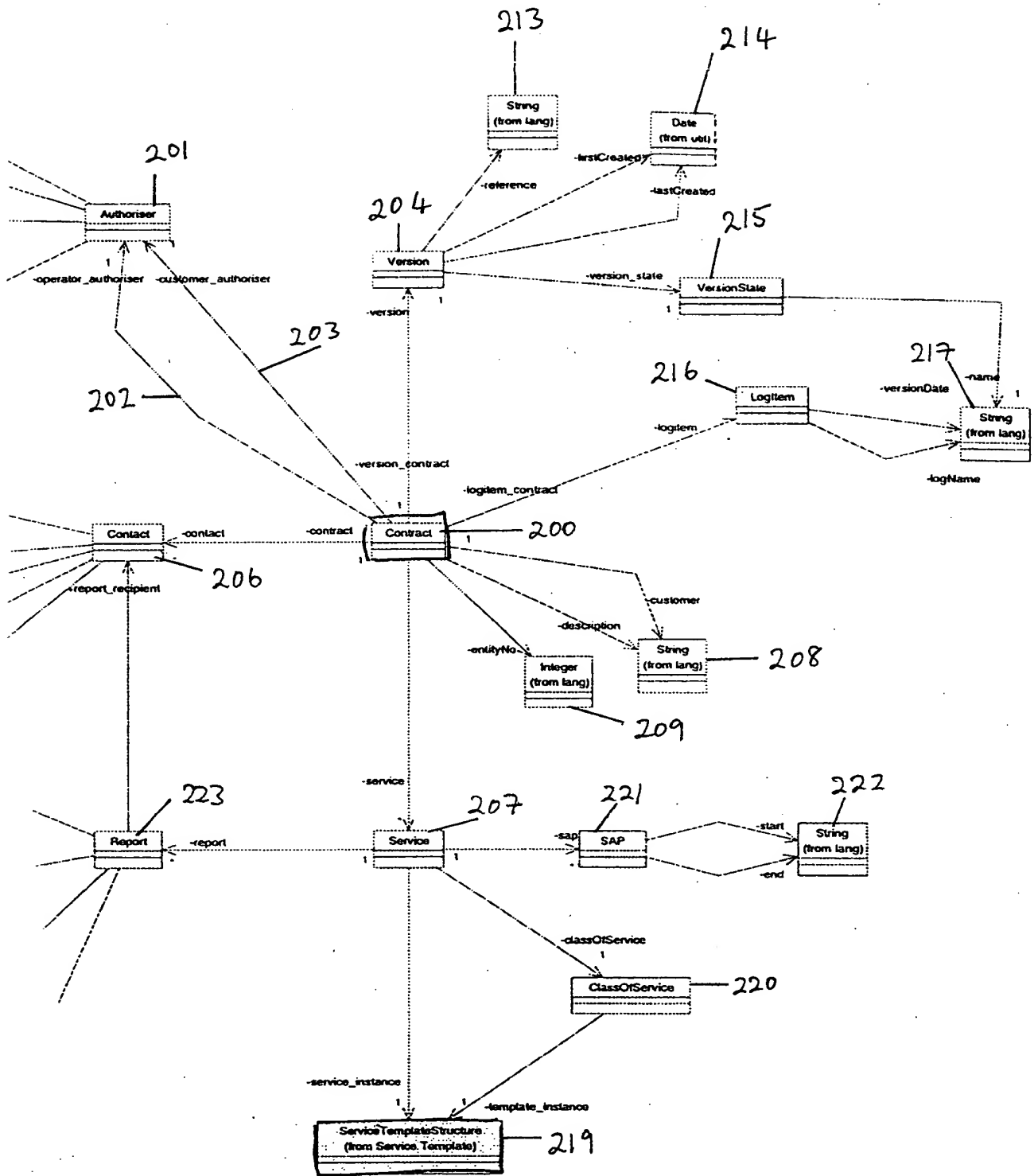


FIG 17

# 2020



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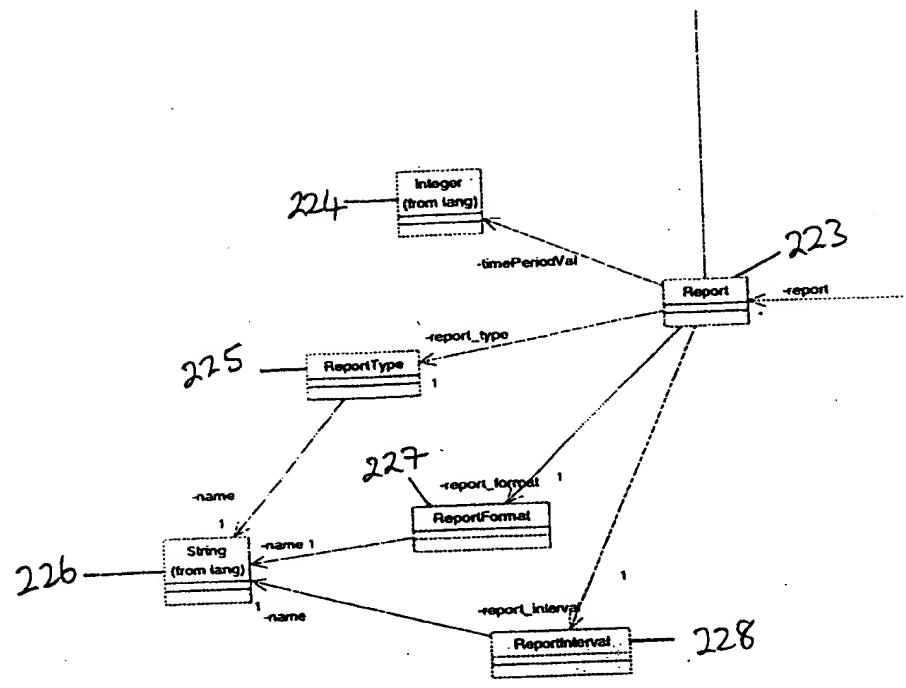


FIG 19

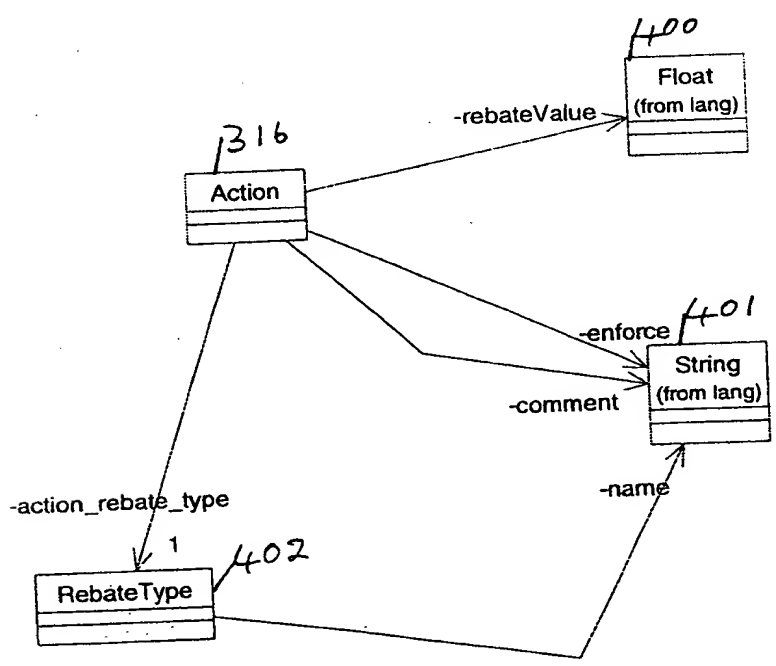


FIG 20



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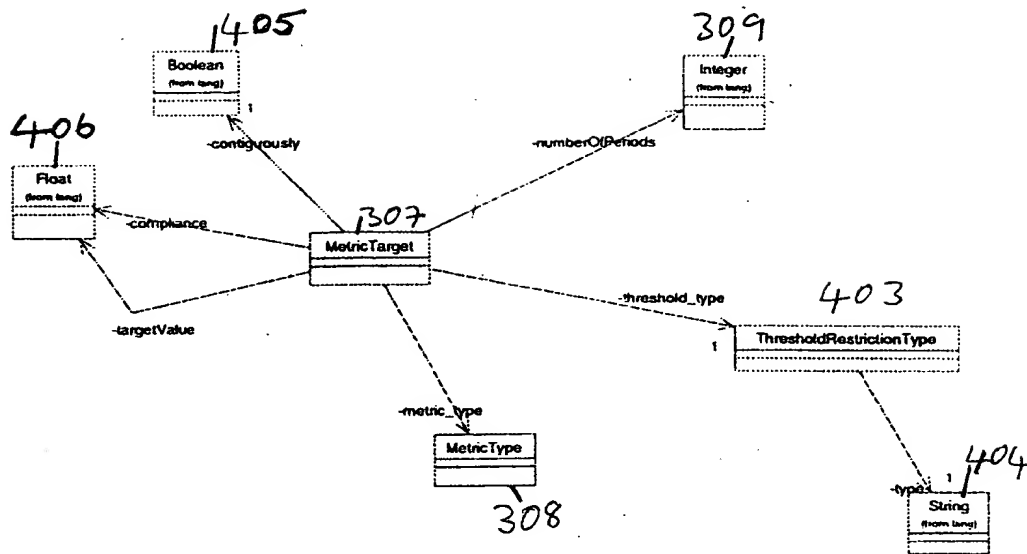


FIG 21

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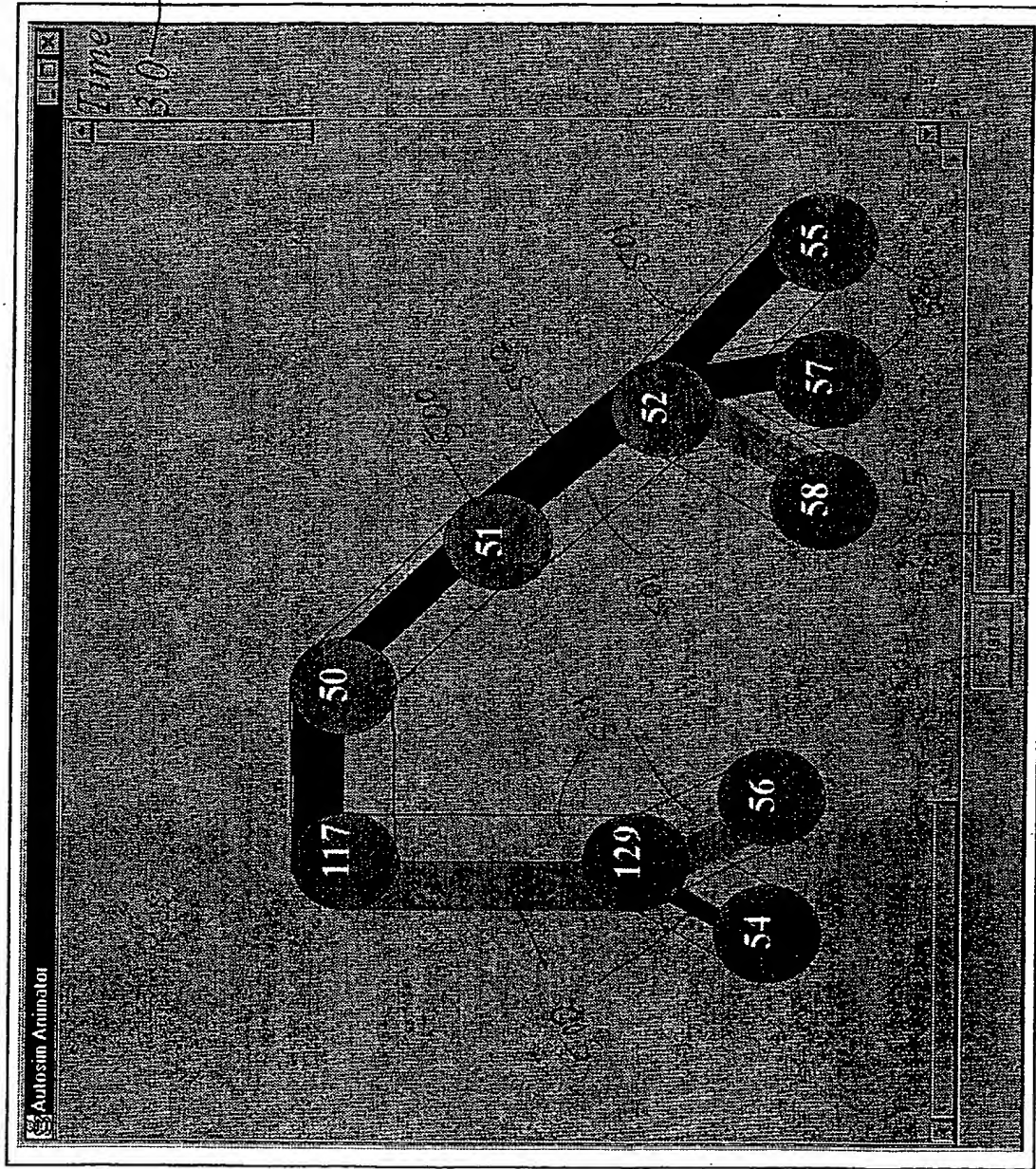


FIG 22

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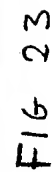


Fig 23

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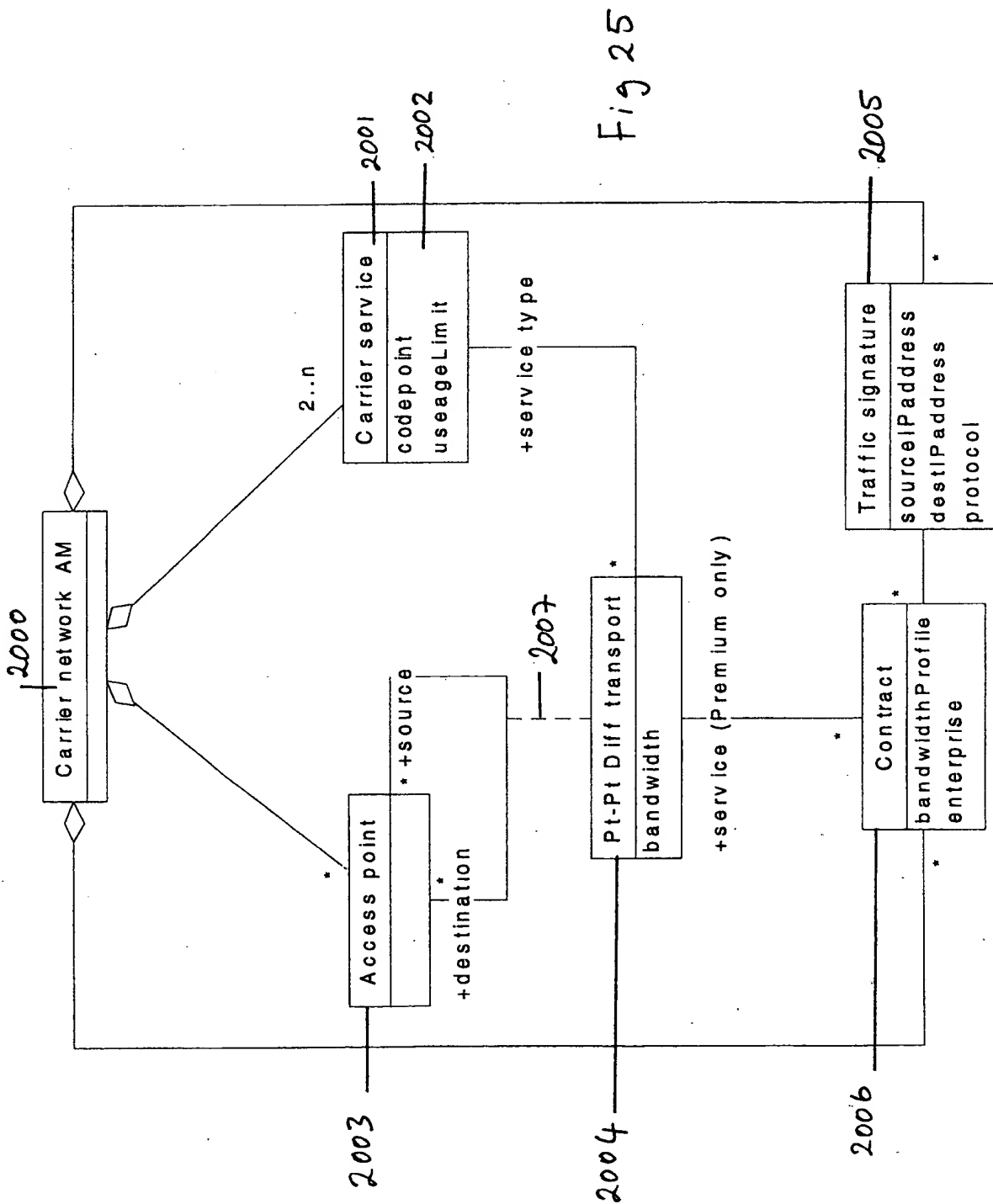
Flow

0.0010 t 286 215 230 166 14000.0  
0.0010 t 240 217 230 166 50000.0  
0.0010 t 199 216 230 166 50000.0  
0.110375 t 286 215 230 166 14000.0  
0.110375 f 286 215 230 166 14000.0  
0.111375 t 230 166 185 116 14000.0  
0.21975 t 286 215 230 166 14000.0  
0.21975 f 286 215 230 166 14000.0  
0.22075 t 230 166 185 116 14000.0  
0.22075 f 230 166 185 116 14000.0  
0.22175 t 185 116 136 69 14000.0  
0.329125 t 286 215 230 166 14000.0  
0.329125 f 286 215 230 166 14000.0  
0.330125 t 230 166 185 116 14000.0  
0.330125 f 230 166 185 116 14000.0  
0.331125 t 185 116 136 69 14000.0  
0.331125 f 185 116 136 69 14000.0  
0.332125 t 136 69 77 70 14000.0  
0.391625 t 199 216 230 166 50000.0  
0.391625 f 199 216 230 166 50000.0  
0.391625 t 240 217 230 166 50000.0  
0.391625 f 240 217 230 166 50000.0  
0.4385 t 286 215 230 166 14000.0  
0.4385 f 286 215 230 166 14000.0  
0.4395 t 230 166 185 116 14000.0  
0.4395 f 230 166 185 116 14000.0  
0.4405 t 185 116 136 69 14000.0  
0.4405 f 185 116 136 69 14000.0  
0.4415 t 136 69 77 70 14000.0  
0.4415 f 136 69 77 70 14000.0  
0.4425 t 77 70 77 159 14000.0

FIG 24

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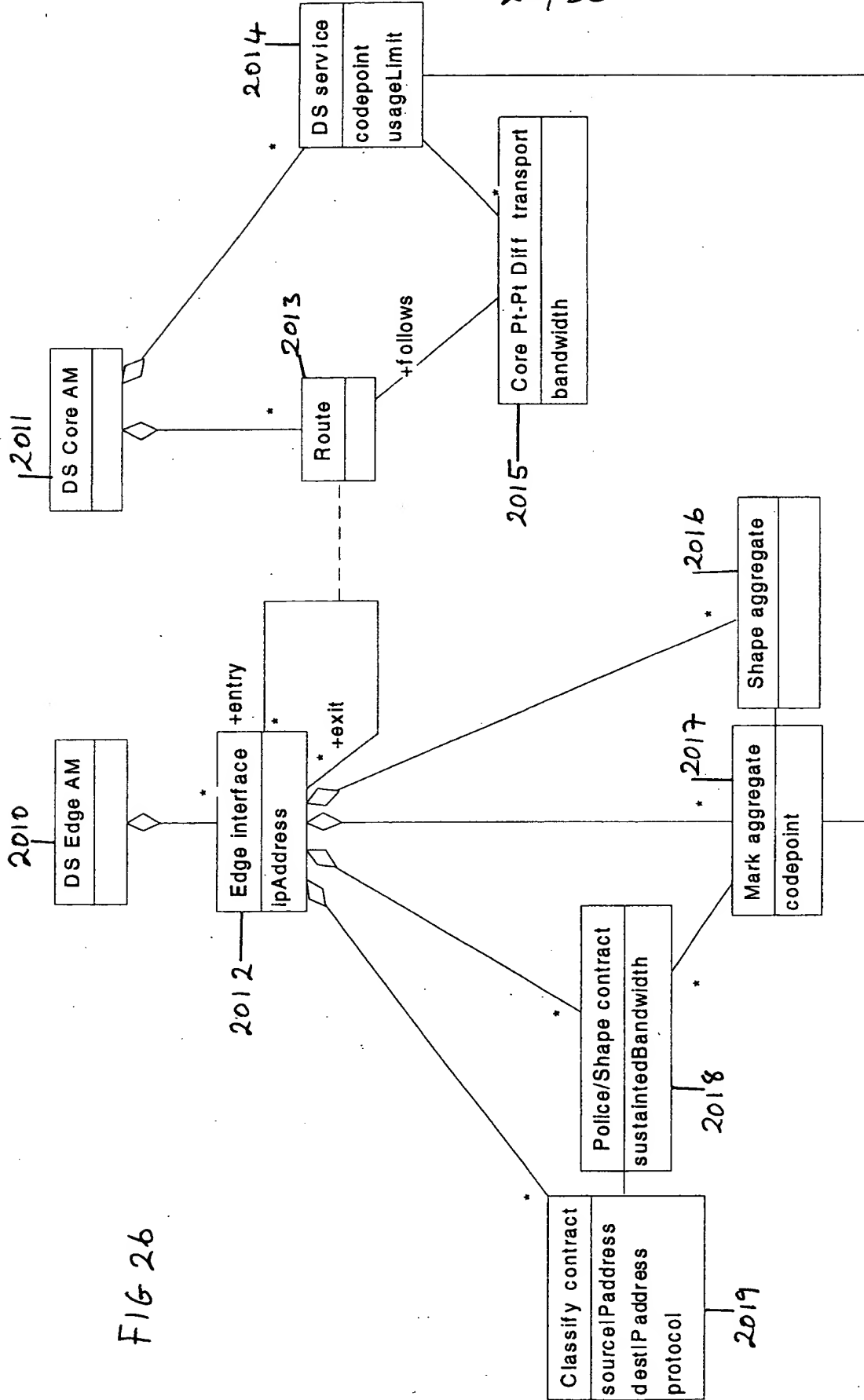


FIG 26

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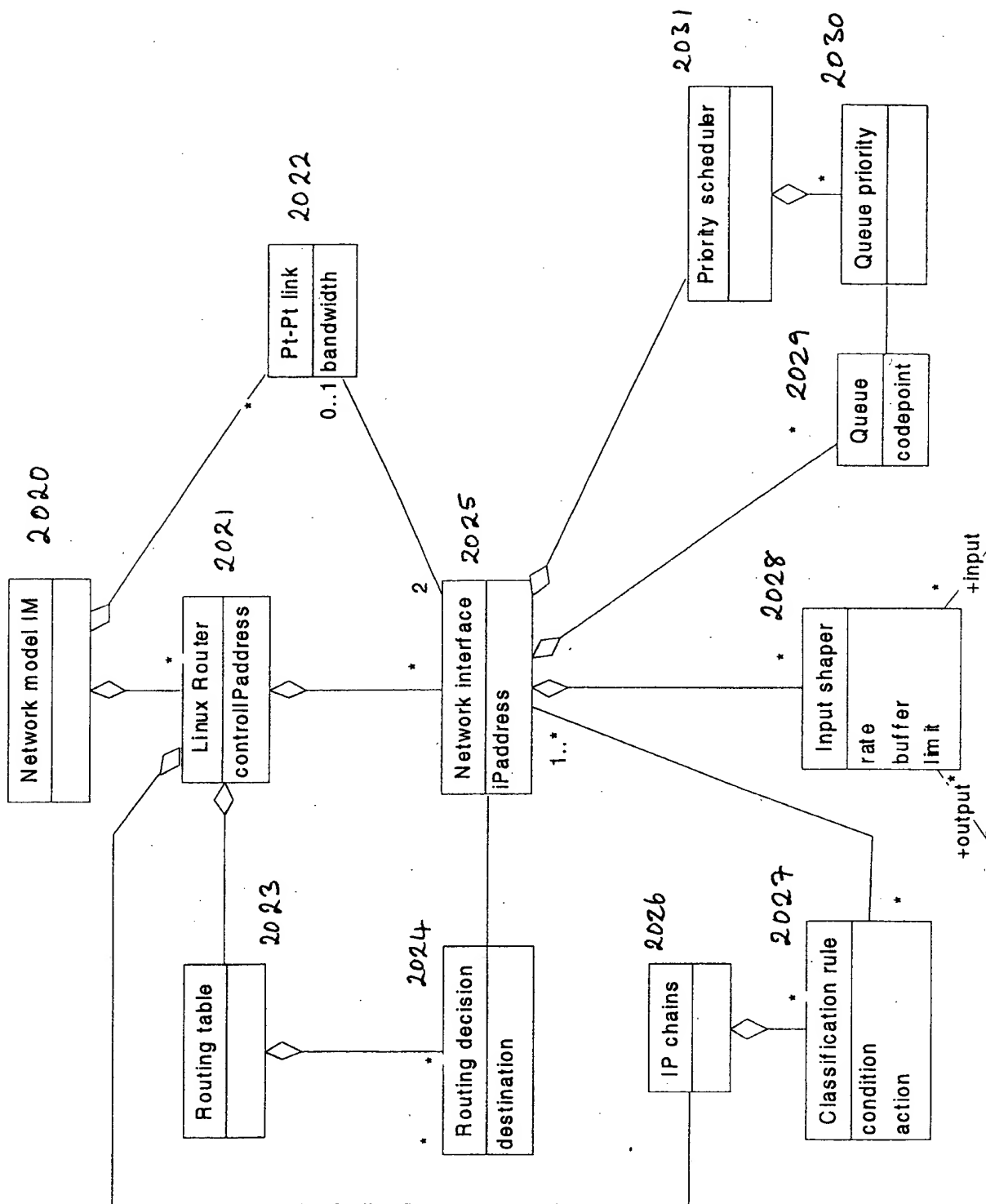


FIG 27

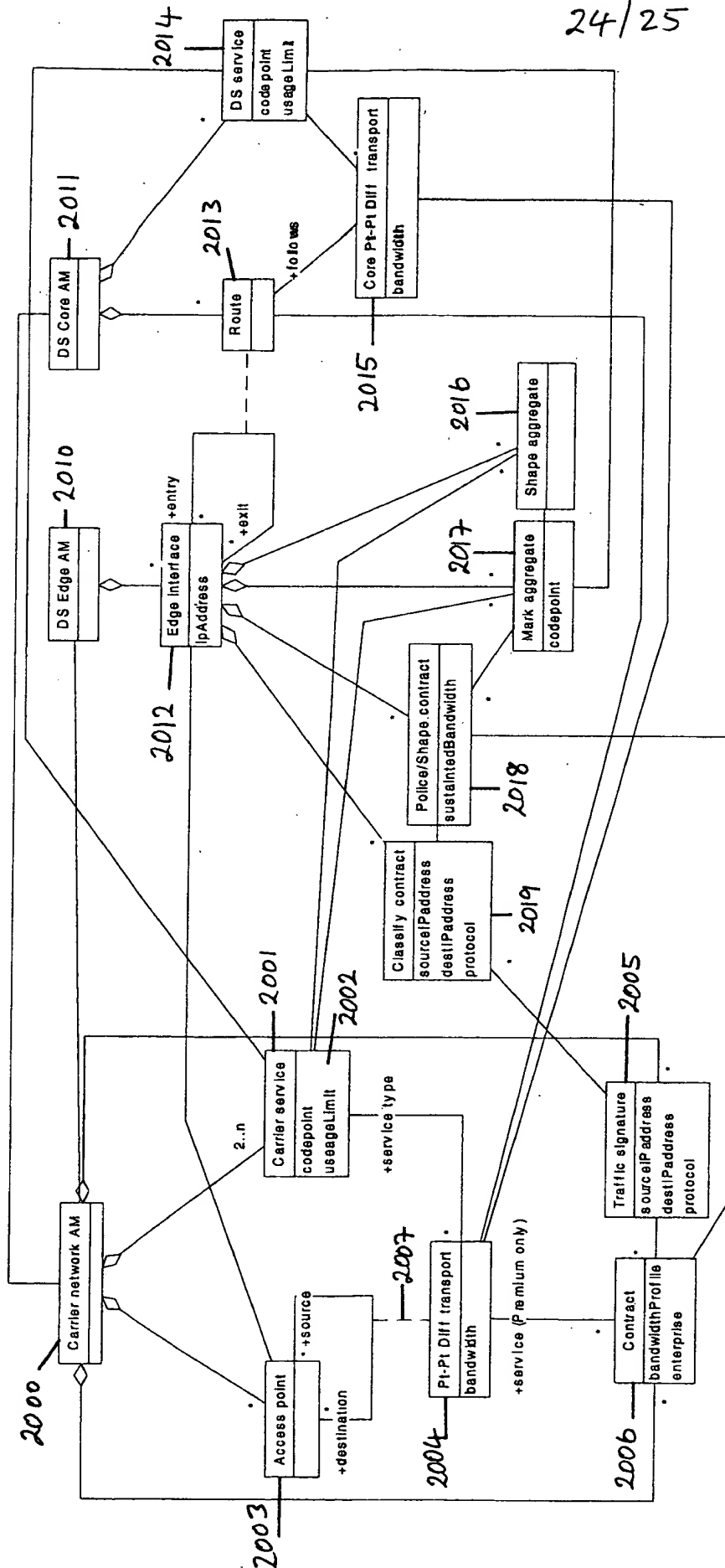
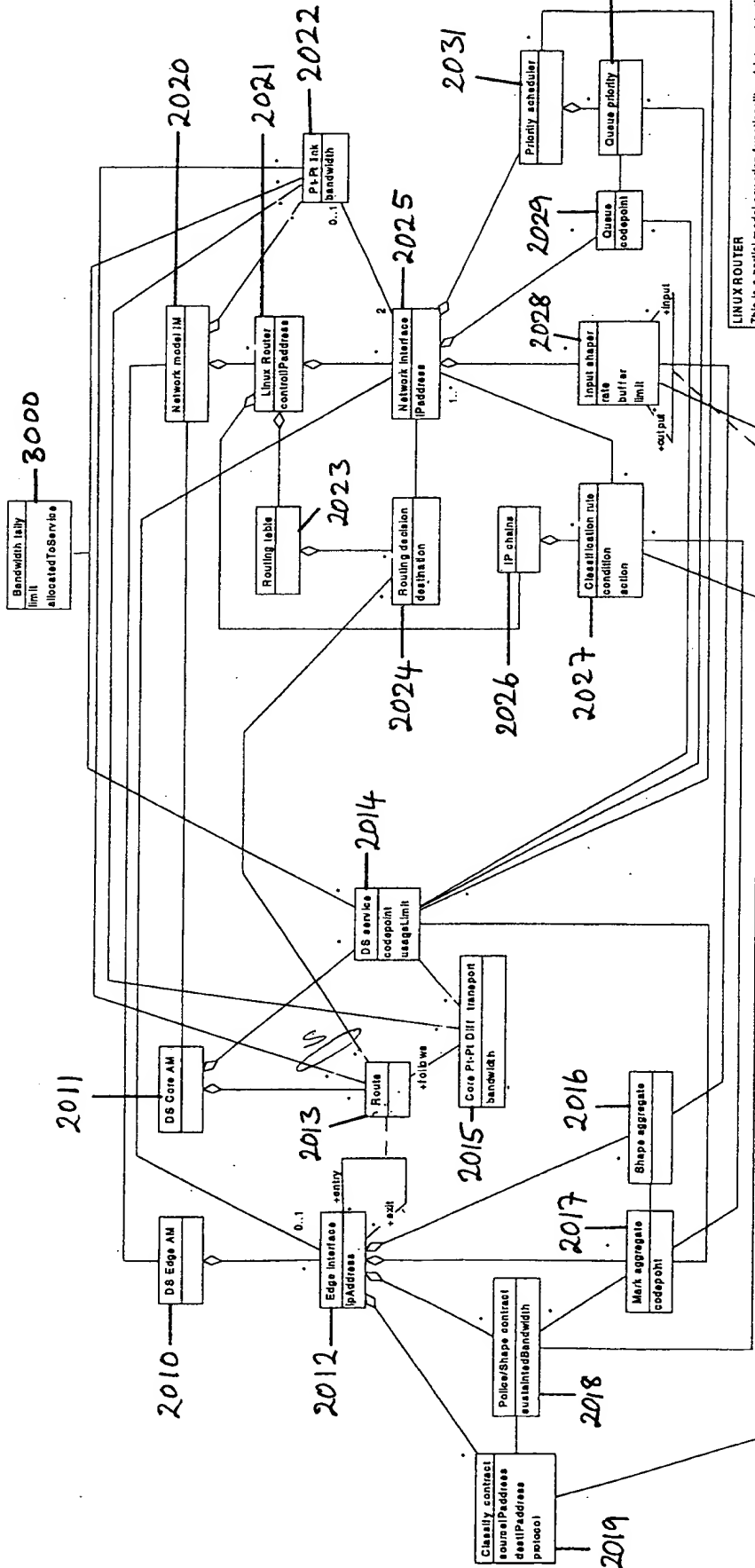


FIG 28

Instances of a number classes are only created when a contract requires them even though in theory they could exist as soon as diffserv support is introduced. These include Pt-Pt Diff transport in Carrier AM, Route and Core Pt-Pt Diff transport in DS Core AM. Traffic signatures can be shared by many contracts, but must be unique in the context of the source Access point so that the network operator can identify packets relating to a particular contract and treat them accordingly.



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**LINUX ROUTER**  
This is a partial model covering functionality of interest to this application. There is no IM as it is realised by a physical computer.

**LINKS**  
This particular Network model uses point to point links between the routers. This reflects the configuration of the IP lab but is somewhat unusual. In Momentum terms this can be seen as a contraction which hides the realisation of the hop (connection between network interfaces) by lower layer objects.

**INPUT SHAPER**  
The particular mechanism to implement an input shaper has not been identified yet and so a generic term is used.

**IMPLEMENTATION NOTES**  
We could return specialisation of Network interface if useful for implementation. Specialising Network interface to show role (linked or edge) might give double-dispatching type benefit. Here we show the case where it has NOT been done, hence optional realisation, link relationships to Network interface.

The contract shapers feed the aggregate shapers. Hence this relationship is configured by the two realisation relationships.  
The other flow relationships (input -> routing -> queuing -> output) are not configurable as all routers do the same. Hence they are not shown to keep the diagram simple(r).

FIG 29